

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/577, 433
Source: IFWP
Date Processed by STIC: 05/09/2006

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 05/09/2006

PATENT APPLICATION: US/10/577,433

TIME: 11:15:58

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\05092006\J577433.raw

3 <110> APPLICANT: FnP corp., Ltd

5 <120> TITLE OF INVENTION: Molecular marker associated with CMV resistance and use thereof

7 <130> FILE REFERENCE: OP04-1077

C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/577,433

C--> 9 <141> CURRENT FILING DATE: 2006-04-27

9 <150> PRIOR APPLICATION NUMBER: KR 2003-75272

10 <151> PRIOR FILING DATE: 2003-10-27

12 <160> NUMBER OF SEQ ID NOS: 28

14 <170> SOFTWARE: KopatentIn 1.71

16 <210> SEQ ID NO: 1

17 <211> LENGTH: 10

18 <212> TYPE: DNA

19 <213> ORGANISM: Artificial Sequence

21 <220> FEATURE:

22 <223> OTHER INFORMATION: RAPD primer (OPC-07)

25 <400> SEQUENCE: 1

26 gtcccgacga 10

29 <210> SEQ ID NO: 2

30 <211> LENGTH: 1027

31 <212> TYPE: DNA

32 <213> ORGANISM: Capsicum annuum

34 <400> SEQUENCE: 2

35 gacataatgt gtagctatga gtagtagggt acggactcat agggccaata gtatggatgg 60

37 cttgtgacat tgcccagaca acaagtcagt gtgacaactc gtartcagtc ttarcgagtc 120

39 ttcatgtaac ccgtagcgac taggcggtag attttttagct tacatttaag gcatcttact 180

41 aattttctctc tttcccaaca aaataccccc gacatataac acattgggga ccctattttc 240

43 ataacttttaa caatcaatga cacctchtaa cccctttaa ytcacctc aaaggcaaga 300

45 ctaggggttc aagaaattgg tcatctaggg ctctacgagt gatttcttct tcaaatttct 360

47 tggggattaa ggcagtatc tctatcccta aacttttttt tcattatgta attaatgggt 420

49 ttattattca catggttttg atgttgggt tagcatgatg ggttgagtgt tttggatgta 480

51 atttgtttaa atgcttttcc cttgcttatt atggaataat tttatttgaa ttgatgatta 540

53 gtaaaatcat ttgggtgctt gggaatggtg aatgaaatag ggggtacaag gattccctaa 600

55 atttgtaaac aatggaaata ggggttcaag gatcacccaa ataattggat tttgaataa 660

57 ttggattttt gtattgaaat tgataagaac ctcaacacac ttgcataatt ggtytagaa 720

59 tgtgattaat taattttcta ggcctacttt cttaraatta rcgcattgca taagaggata 780

61 acatayaaga atgatcttaa aaacgttggt aggtacaagg attcacctaa gtgaatgatt 840

63 tttcttgaaa acctgtgctg gtacaaggat tctccaaagt gtatgataaa tggagtttgg 900

65 gtgtacaagg attcttccaa gtaatggatt aattgaattt ctagtaagat ttagtcagta 960

67 tgacgatgcc acttcataat gccttactta tgtttcagac tatctttcga attcttcttt 1020

69 tgggcta 1027

72 <210> SEQ ID NO: 3

73 <211> LENGTH: 21

74 <212> TYPE: DNA

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75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: CRSCC07a primer for inverse PCR
81 <400> SEQUENCE: 3
82 gtcccgacga tagcccaaaa g                21
85 <210> SEQ ID NO: 4
86 <211> LENGTH: 20
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: CRINVR65 primer for inverse PCR
94 <400> SEQUENCE: 4
95 ttggccctat gagtccgtac                20
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 20
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: CRINVR125 primer for inverse PCR
107 <400> SEQUENCE: 5
108 actgactacg agttgtcacc                20
111 <210> SEQ ID NO: 6
112 <211> LENGTH: 20
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: CRINVF629 primer for inverse PCR
120 <400> SEQUENCE: 6
121 taggggttca aggatcaccc                20
124 <210> SEQ ID NO: 7
125 <211> LENGTH: 20
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: CRINVR796 primer for inverse PCR
133 <400> SEQUENCE: 7
134 tatcctctta tgcaatgcgc                20
137 <210> SEQ ID NO: 8
138 <211> LENGTH: 20
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: CRINVR840 primer for inverse PCR
146 <400> SEQUENCE: 8
147 aatccttgta cctcacaacg                20
150 <210> SEQ ID NO: 9
151 <211> LENGTH: 20
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence

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155 <220> FEATURE:
156 <223> OTHER INFORMATION: CRINV975 primer for inverse PCR
159 <400> SEQUENCE: 9
160 cgatgccact tcataatgcc 20
163 <210> SEQ ID NO: 10
164 <211> LENGTH: 20
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Inv 1030514 R primer for inverse PCR
172 <400> SEQUENCE: 10
173 gacttgggca ctacactgga 20
176 <210> SEQ ID NO: 11
177 <211> LENGTH: 20
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: Inv 1030514 F primer for inverse PCR
185 <400> SEQUENCE: 11
186 acataggcgt gtgctctgga 20
189 <210> SEQ ID NO: 12
190 <211> LENGTH: 21
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: CR 1541-3 primer for inverse PCR
198 <400> SEQUENCE: 12
199 ggagtttcat catatgaagc c 21
202 <210> SEQ ID NO: 13
203 <211> LENGTH: 22
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: InvXbTopF1010 primer for inverse PCR
211 <400> SEQUENCE: 13
212 ggttcaagga tcacccaaat aa 22
215 <210> SEQ ID NO: 14
216 <211> LENGTH: 22
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: InvXbTopR107 primer for inverse PCR
224 <400> SEQUENCE: 14
225 ttcaccttag tccccaaacc ta 22
228 <210> SEQ ID NO: 15
229 <211> LENGTH: 20
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:

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234 <223> OTHER INFORMATION: EV Inver F2 primer for inverse PCR
237 <400> SEQUENCE: 15
238 aacccaagcc tatttttagcc 20
241 <210> SEQ ID NO: 16
242 <211> LENGTH: 22
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: EV-INV-XbaI primer for inverse PCR
250 <400> SEQUENCE: 16
251 ggtaataggg ttcaccttag tc 22
254 <210> SEQ ID NO: 17
255 <211> LENGTH: 20
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: CRINVF5095 primer for inverse PCR
263 <400> SEQUENCE: 17
264 ctttgagcca aagaatggaa 20
267 <210> SEQ ID NO: 18
268 <211> LENGTH: 20
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: CRINVR4776 primer for inverse PCR
276 <400> SEQUENCE: 18
277 ttggtaatg accggagacc 20
280 <210> SEQ ID NO: 19
281 <211> LENGTH: 20
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: INVER0827R primer for inverse PCR
289 <400> SEQUENCE: 19
290 atagcagagg agcaccctac 20
293 <210> SEQ ID NO: 20
294 <211> LENGTH: 22
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: INVER0827F1 primer for inverse PCR
302 <400> SEQUENCE: 20
303 ggtacaagga ttcccaaag tg 22
306 <210> SEQ ID NO: 21
307 <211> LENGTH: 25
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <223> OTHER INFORMATION: INVER0827F2 primer for inverse PCR

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315 <400> SEQUENCE: 21
316 gatttagtca gtatgacgat gccac 25
319 <210> SEQ ID NO: 22
320 <211> LENGTH: 5591
321 <212> TYPE: DNA
322 <213> ORGANISM: Capsicum annuum
324 <400> SEQUENCE: 22
325 tctagaacta gccagttcat gaggtcfaat cctctgacct ttactagctc taagggtttag 60
327 gaggatcctc aaagggttcat gtatgagata gaaaaaacat ttagagtgat acatgctttc 120
329 gactctgaag gtgtataatt ttcaaaatat cagctgaagg atgtggtata tcaatggtat 180
331 gagaagtagg agcagttgag gggggatgat gctgagttag tcatatggga tttttttcta 240
333 gtacctttct tgattatttc tttcctcagg agataaggaa agcaaatgct gaggagttta 300
335 tgaataactt gataagggtt tgatccaccc tagtatttct ctgtagggtg ctctctgct 360
337 atttatttgt tagaaagatg gttcccttta gatgtgtata gattatcgct agttgaataa 420
339 ggtgactatg aagaaaaagt accctctccc taagattgat gatttattca tccagcttca 480
341 gggtgcaaag tactttttcta aaattaatct ctgttaagggt tattattagt tgaaaattag 540
343 ggatgtggat atccctaagg ctacttttca aaccagtggt ggtcattatg agtttttggg 600
345 gatgtcctat ggtttgacta atgctccggg ggcaatcaag gatcttatga acatagtatt 660
347 ctggttagttc ctggatttat ttgttattgt gttaatagat gatatttttg tatattctaa 720
349 gagegaggct gatcacgccg atcatctcca tatagtattg caaactttta aagatcaact 780
351 gttgtacgcc aaatttttcta agtgtgaatt atggttgaat gtggtgacct tccttggtta 840
353 tattatttct agtgagggga ttatggtgga tccacaaaaa ttttatgctg tgaagaagtg 900
355 gcctaaaacc atgattccaa ccaatattta gagtttttgg gtttagttag atattatagg 960
357 aggtttgtgg agagtttctc atcaattgat gctctattta ttaagttaac tcagaaaaaa 1020
359 ggtatgggtt ctatggtcca atgcttgtca gggtagcttt gataagttga aggataagtt 1080
361 gactttggat atgatcttga ccctaccoga aggtttttaa gtttttttaa ttttgatgca 1140
363 tcccgtgtag gacttggttg tgttttgatg tagaaacaat agggttcttg cctatgcttc 1200
365 taggaaattg aaagttcatg aaatgaatta tgcgacacat aacttagaat tattagtgtg 1260
367 ggtattttca ttgaagctta ggtatcggtt tttgtatggg ttcattgtga tatatgtttt 1320
369 gatcataaga ttctgtagta tgtgttcacc cagaaggagt tgaatctcag gcaaaggaca 1380
371 tggcttgagt ttctcaaagg ctatgacatt agtctccatt acaaccagg taaatctaac 1440
373 atggttggtg gtattcttag taggttgtcc atgggaagat tataaaatat ggatgaggaa 1500
375 aaatgagatt tgggtgaagta tattcaccga tttggttaacc ttggagtctg tcttttggat 1560
377 tctgaggatg gaggtatggt tgttcaagag gtggtgaagt catctcttag tgttgaagta 1620
379 aaagcgaaac atgtcttgga tcctatctta atgcaaatca aagatgatgt gggtaacag 1680
381 aaggttatgg cttcaagat tggtagtaat ggtattttta ggtaccaagg tagatttgtg 1740
383 gttaccgatg ttaatgggtt atgagaatga attttggttg aagctcatga gtcgtgattt 1800
385 atggctcatc ttggtttgac gaagatgtac catgattcga aggagattta ttggttgaat 1860
387 aatatgaaga gagatgtggc aaattttgtt gctatgttca tgggttgcca acaagtgaag 1920
389 gtgggaacc taaggcctgg tgattctat cgctcggttg gaagtgaag gtaatcagta 1980
391 tggattttgt ttccagttct ccacggctct gtagtaaat ttatttgatt tgggtcatca 2040
393 ttgataggat gtctaagtct actcacttct tgccagtgag gactaataat tcatgggagg 2100
395 actacgcgaa gtttttcatt caggatatca tcaagttgca tgggtcttta gtttctatta 2160
397 tatctgatcg aggtactcag ttctcgtcta acttttagtg attatttcat gtaggttttg 2220
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401 ctattcagac tttggatagt atgctaaagg tatttgtgat taacttttgt ggtatttggg 2340
403 tttaccatat gcctctctta ctgtttgtgt ataataacaa ctattattct agcattcaga 2400
405 tgccccgttt gaggttttgg atggtaggag atgtcgttct cctattgggt ggttcaaatt 2460
407 tggttaagact agattggtca gcctggactt tgttcatgaa gctatagata aggtgaagg 2520

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VERIFICATION SUMMARY

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DATE: 05/09/2006

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Input Set : A:\Sequence Listing.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date